

Distillation column
overhead to flare
(N_2 , H_2 , C_2)

Reactor purge
to flare
(N_2 , H_2 , C_2 , C_4)

VaporSep system

Monomer
supply and
purification

Polymerization
reactor

Vent gas
(hydrocarbon,
nitrogen)

Compressor

Condenser

Membrane
unit

Other raw
materials
supply and
purification

PE resin
with
hydrocarbon

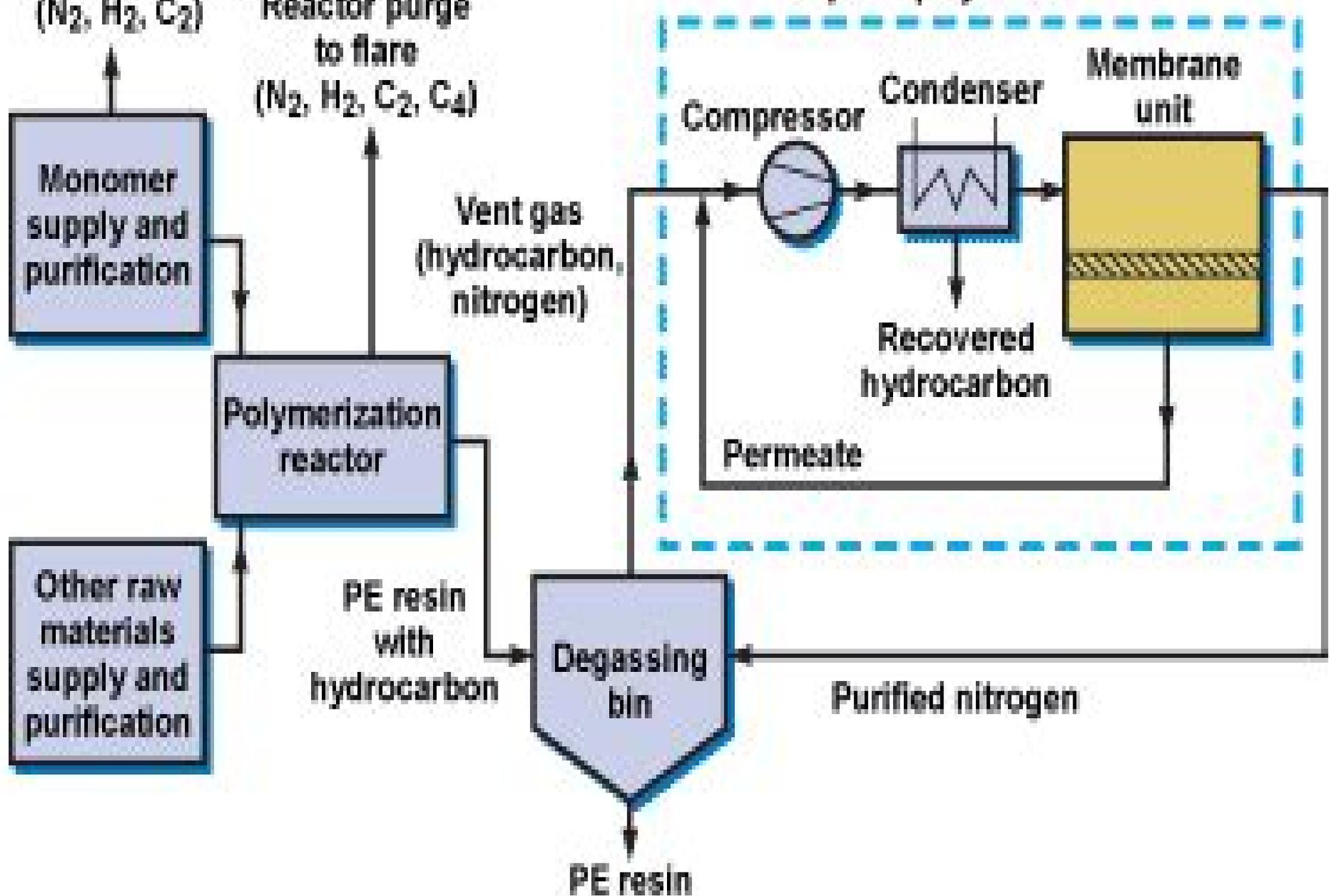
Degassing
bin

Recovered
hydrocarbon

Permeate

Purified nitrogen

PE resin



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**Symposium on Safety in the High
Pressure Polyethylene
Process, American Institute of
Chemical Engineers**

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Design of a Chemical Plant for the Production of 525, 600 Ton/yr of Low Density Polyethylene Mariam Aljaberi, 2019 Low density of polyethylene is a thermoplastic model made from the long chain of ethylene and it is one of the categories of polyethylene which classified based on the density and branching Low density of polyethylene is widely used in several applications such as film applications containers and plastic bags In addition it is mainly used as a laboratory apparatus and electrical insulation products On an industrial area low density of polyethylene can be produced from the reaction of ethylene that occurs on either auto clave process or tubular process The main objective of this research is to design a plant that produces 525 600 tons year of low density of polyethylene from the raw materials which is ethylene The quantities of ethylene consumed in the process was 65 545 kg hr In the first step of the process ethylene is compressed in three stages before it enters the reactor as well as the hyper compressor This study evaluates two main processes of producing low density of polyethylene on a large scale The selected process which is tubular process was better than autoclave regarding the factors that have been studied in this project Such as economy analysis features of designing and the molecular weight distribution Moreover the specific selection was on Tubular process of Borouge company that the process is most sustainable and economically viable one which could meet the growing needs in the UAE The design of the process flow diagram is carried out in different stages Initially compression of ethylene gas in three stages then polymerization in tubular reactor which an important equipment in our process which the final products is formed with 25% conversion are needed for the principal reaction for production of low density of polyethylene Farther polymer gas separation and unreacted gas recycle step extrusion and degassing which is the final step of the whole process

Polyethylene Film Extrusion B. H Gregory, 2009-11 A revised version of this book is now available The polyethylene industry has been in the midst of major restructuring and rationalization This has lead to joint ventures and alliances to combine technologies and exploit opportunities to maximize improvements in process productivity catalyst innovations and enhancements in extrusion technology and converting This comprehensive study of the polyethylene film extrusion process describes this technology in detail In depth descriptions of the manufacturing processes for polyethylene homopolymers and copolymers including metallocenes are reviewed All aspects of machine design with particular emphasis on screws and dies including coextrusion are discussed comprehensively With computer modeling the interactions between equipment and polymer are quantified All aspects of equipment design and polymer features that control melt fracture interfacial instabilities gauge control output and temperature and cooling of blown and cast film processes are presented quantitatively This methodology will highlight solutions in troubleshooting for optimum design and operation and the best available polymer and formulation choices All polyethylene film applications in packaging agriculture lamination and construction consumer industrial and health care are reviewed and discussed in depth

Business and Technology of the Global Polyethylene Industry Thomas E.

Nowlin,2014-09-09 The history of the business and technology that was responsible for the enormous growth of the global polyethylene industry from the laboratory discovery in 1933 to reach an annual production of over 75 million metric tons in 2012 and become the leading plastic material worldwide This book is an in depth look at the history of the scientists and engineers that created the catalysts and the methods used for the modern commercial manufacture of polyethylene and its products The book outlines the processes used for the manufacture of polyethylene are reviewed which include the high pressure process and the three low pressure processes slurry solution and the gas phase methods The techniques used to fabricate polyethylene into end use products are reviewed with a discussion of blow molding injection molding rotational molding blown film cast film and thermoforming are also discussed in detail **Handbook of Industrial Polyethylene and Technology** Mark A. Spalding,Ananda Chatterjee,2017-10-26 This handbook provides an exhaustive description of polyethylene The 50 chapters are written by some of the most experienced and prominent authors in the field providing a truly unique view of polyethylene The book starts with a historical discussion on how low density polyethylene was discovered and how it provided unique opportunities in the early days New catalysts are presented and show how they created an expansion in available products including linear low density polyethylene high density polyethylene copolymers and polyethylene produced from metallocene catalysts With these different catalysts systems a wide range of structures are possible with an equally wide range of physical properties Numerous types of additives are presented that include additives for the protection of the resin from the environment and processing fillers processing aids anti fogging agents pigments and flame retardants Common processing methods including extrusion blown film cast film injection molding and thermoforming are presented along with some of the more specialized processing techniques such as rotational molding fiber processing pipe extrusion reactive extrusion wire and cable and foaming processes The business of polyethylene including markets world capacity and future prospects are detailed This handbook provides the most current and complete technology assessments and business practices for polyethylene resins *Handbook of Polyethylene* Andrew Peacock,2000-01-20 This text provides the basic history molecular structure and intrinsic properties practical applications and future developments of polyethylene production and marketing including recycling systems and metallocene technology It describes commercial processing techniques used to convert raw polyethylene to finished products emphasizing special Safety in High Pressure Polyethylene Progress Symposium on Safety in the High Pressure Polyethylene Process,American Institute of Chemical Engineers,1974 Safety in polyethylene plants. 3 : [... contains the papers presented at the third symposium on "Safety in the high pressure polyethylene process", Houston, Tex. March, 1977] ,1978 *Safety in High Pressure Polyethylene Progress Symposium on Safety in the High Pressure Polyethylene Process,American Institute of Chemical Engineers,1973*

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